Figure 1: CETP Genomic Sequence (SEQ ID No:1)

Genbank M32992

1 tgtctttttc tcatagtcat tgtattttgg cctctttcta tttatggcaa cagagagaga

61 aagcttattc ctagatatat gtatttaagt aaaaataaat gaattcatgg aaacatatta

121 agcaattatc cagataacat aagggatggc aaaaatggtg cagatggtgg aggggagaca

181 agtagaagtt ggggtgctct tgttgaatgt ctggctctga actctagagg aggccgcagg

241 ggctgggcag gaaggaggtg aatctctggg gccaggaaga ccctgctgcc cggaagagcc

301 tcatgttccg tgggggctgg gcggacatac atatacgggc tccaggctga acggctcggg

361 ccacttacac accactgcct gataaccatg ctggctgcca cagtcctgac cctggccctg

421 ctgggcaatg cccatgcctg ctccaaaggc acctcgcacg aggcaggcat cgtgtgccgc

481 atcaccaagc ctgccctcct ggtgtgtaag tatcagtgca tctgtctgcc ctgccagggg

541 tcttttcatg gacacccact atgccaggag cctccctggc ctgaagccag ccctgaagcc

601 ggctgccaca ctagcccaga gagaggagtg ccctgggagg gagatgggct gagtggagct

661 gtcatcaccc cctcctgacc tcgccttcaa ggtcaagttc tttggtgaga aggtcctagc

721 tgcattgcaa acagccaggt atagggattt gtgtttgtct gcgacccaga atcactgggg

781 ttcgagttag ggttcagatc tgagccaggt tagggggtta atgtcagggg gtaaagatta

841 ggaggttggt gtatatttgg tgttgggggt cactctatgg ccaaagtcag gggttgccat

901 gagctcaggt gacggaggct ccatcactga ctgtttgtga ctttgccagc tcccctggcc

961 ctctctgggc ctcagtctct tgctcatata ataagggtat agggaggcta aatgatacaa

1021 tttctaaaat agagtatcgc caagttcaaa agccagaatt atagacccca ggactacaga

1081 cagtgtcaca gcatcgtctg ggtgaggcta gggttagtgt gcggctgggc tcagggctgc

1141 cccatttgct aggatcgtgg ggttcccatg tgtcaggatc cagaggctag ggtatgatca

1201 ggatctctag ctggggtcag ggtcagagct ctctgtgtcc cctagaattg ccatcaacct

1261 taaacccaga ggaggcccag tccaaccccc cagctttaag acctgggagc ctcatctcag

1321 agaggctgag tcatggccaa ggcagttggg gtgggagcag ggggcttggt gtgggcctgc

10025244-120104

1381 agccctcatc cactgccctc cctctagtga accacgagac tgccaaggtg atccagaccg

1441 ccttccagcg agccagctac ccagatatca cgggcgagaa ggccatgatg ctccttggcc

1501 aagtcaagta tgggttgcac aagtgagtcg ggcctcgggt gtgacctggc tgggggtagg

1561 gtggcgggag gaacagcctg ggcttccccc agccacaggg aggaaaggca gcagctgggg

1621 gactcaggtc tctcccctttg atttggaacc agagcc

Patent Number 7,094,904

Figure 2: CETP Genomic Sequence (SEQ ID No:2)

Genbank M32993

1 ctctttttta aagataggca tttctagata taaatctccc tgtgagcacg gttccctcca

61 tcttcagcac accagggttg actctctccg ggcgttcttc cctggtcacc tctccccttc

121 ctctcctctt ctgcctcctc ttccactttt cggtaccctg tgattgattg ggaccaccca

181 gataacctag gatcatctcc ccacctaccc caaggtcctt aacttaacca tacttcatat

241 gggtaacacg agttgagtgt ggtacccagg tttgacatgt tgggtaacat atttgcaggt

301 tctgtggatt aggaggacat tttgggggcc atgattctat cttccaccct cgcctagaca

361 aaattggagg ctcactcctt gggctccctg gatgaccccc aacatccttc ctcacttcca

421 ttccttccca gcatccagat cagccacttg tccatcgcca gcagccaggt ggagctggtg

481 gaagccaagt ccattgatgt ctccattcag aacgtgtctg tggtcttcaa ggggaccctg

541 aagtatggct acaccactgc ctggtggtaa gcattcctgt cagctgatgc cccatgccct

601 ggccctctct gggtggaggg ctgaatgagg tctgggtcct tggctctttc caggctgggt

661 attgatcagt ccattgactt cgagatcgac tctgccattg acctccagat caacacacag

721 ctgagtatgt gtcaagcgtc ctctggggaa gtgggagctg gactccaggg cttggctcag

781 cagaggggga ggttgtgcag gcagagggtt ctggggccac caaaggaggc agcctgggaa

841 gtttgcaggg ttggggaccc cagagctggc caagctcttg actggcctgg gcagcatgtg

901 gataccatct gatagcggag gctgccctga ggtcatgtcg ggtctccctg cagcctgtga

961 ctctggtaga gtgcggaccg atgcccctga ctgctacctg tctttccata agctgctcct

1021 gcatctccaa ggggagcgag agtaagtaca ccaccctgtg cccccattcc tgtcgtgccc

1081 atcctgttag tgtgtccacg gccccctcca ggctcaaccc cacacaggga tgcttgtggg

1141 tggccaaacc tgagggcagc aataccttca gtggggtcat tccatccccc tccatcaata

1201 caccctaaag gctggaaaca acaataacca acagctagta actaacagct attaagaact

1261 tctgttggca aagcactatt ccaagccctt tcatgaatta attgattttg tccttaaaac

1321 caaccctagg atatagattc tgttatcatc ccctttttac atatgggtaa actgagtcac

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1381 agacaggtta gaaaggaaaa gctcatatct acggagtcga tcctgcattc caagcaccac

1441 actaactcag agataaaact ctagccaagc taagtaactt gctgaggaca cacaactcgc

1501 cactaaggga tgggagtagg acccatttga acccagactt ctctgacccc agaagctgag

1561 ttcctagata ctttactctc ctgcttccca gggtggggct ttttgtcttg gccaacaccc

1621 tctgtcaagg agctgtggta accccattgc acagaggaag ataacaaggt ttggagagtc

1681 cctagtcatg ttaccaatgc caaacctgga aggcagaagg gaactggtgg gtggggtctg

1741 gagaggagcc ctctattcag gccatttttt ctgactctgg agcaagacgg atacatgtat

1801 gaatttggac tctagacacg ttctcgtgtg tgtgacaggt gtgagcgtca caggagctgg

1861 gccctcccga ggaattctgg atggtgccac agttaattct tgggtctgag gctccgtgtt

1921 ctcactgcaa aatgggagtg ataattctta cttcctgagc tacaagagtc agggccaaca

1981 gagccatgaa ggagcctggt acacactagg cgctccatgg atgcacagga ctggtcaggg

2041 gctcattgtg gtgcttgctg ccttcaggcc tgggtggatc aagcagctgt tcacaaattt

2101 catctccttc accctgaagc tggtcctgaa gggacaggtg agtgaggctg gctgactccc

2161 tgtggtccag gccatgccca ggaggctgga tccctttcct ccctgccttt ccctgagaag

2221 gtgccactcc caccttctcc atgtggccag tcccctgtgc cggtccccag cactgccacc

2281 accacgcagc tggaaggagg cactccgtct ggcctccttt cctgcctgga aagcacctgc

2341 tctgtctgcc ccagatctgc aaagagatca acgtcatctc taacatcatg gccgattttg

2401 tccagacaag ggctggtgag tgcgtttctg tctgcatgcc tcagaagaca gcagtgggag

2461 ccagaaagcc acctgctgca ctatgtggcc ttgggactgt cactcttcct gtctaggtcc

2521 catgggctct atctggctct gacacttgat gattagttat gagcatactt tggcaaagct

2581 ctgccccttt ggtgcggctc acaagctgtg tggcgaaggg cttgtctata gaactcagga

2641 caaatgggtg attaagtcca agaggcatcc aagattctcc tggaagtaga ttaggaaaaa

2701 agataattag attgctcaca tggctgggca ctcatccatg tactgtactc tcctatgcag

2761 tacagagcag agctgggttt cagcccaagt cttggactct gctctgaacc aaccttctag

2821 aagggctcta cctacccaga cagacagact tgggaaaaga gagaatgaaa aagtgccaca

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2941 gtagctgtgt ggatgcaggg gacggtgact cagggcaatt cccccatccc tgaggccctg

3001 cgttgatctt ttcctcctgc agccagcatc ctttcagatg gagacattgg ggtggacatt

3061 tccctgacag gtgatcccgt catcacagcc tcctacctgg agtcccatca caaggtagga

3121 gttgtgggag ggtgggcagg gcccagcttc cccaggggag ttggtccttt tttgtgctct

3181 gacaacccca tcccccagct tcaaccttat ggcagccaag agtcctgggg agctcctcct

3241 cattcctgat gctcctccgc attcctgatg ctgcgaggag ggcaggccac agcgacgtgc

3301 ccctgacccc tctctgcagg caccagggct gcccactaca aggatcccag caaagcacca

3361 gctccttcct agagggctta ttcggcttct gtcatcctct acagcagtgg attgtggccc

3421 cccccagggg gtactgacaa aagctt

EP 0 392 745 B1

Figure 3: CETP Genomic Sequence (SEQ ID No:3)

Genbank No: M32997

1 acatggtgca catgcctgta gtcctagcta cttggtggct gaggtagaca atcgcttgaa

61 cctgggacgt ggaggttgca gtgagctgag atcgtgccac tgccctccag cctgggcaac

121 agagtgagac tgtctcaaaa acaaaaaaag aaaagaaaag aaaaagaaag tgacttctca

181 ggtcctaacc ccaaagccac aggtgctggg gaactttcct cggttttcag aagagcagta

241 gctaagcctg gttcccgtgt catccttgcc tctccagtcc ctcagtggaa agaatcaggg

301 gccctgagct aggagggttg ctctctgctt cgggaagagc cctggctcac agcaaatttg

361 gtttctctcc ccaggatatc gtgactaccg tccaggcctc ctattctaag aaaaagctct

421 tcttaagcct cttggatttc cagtatgtgc tgcagagaag agaaggggcc ggtcaactcc

481 gcaaacctct ccctggcccc ttggagtcag gcacagggcg gggtgttggt ggggaaatgt

541 ggccccttte ttctggggca tatgggctga ctgcagggaa gataagaccc tgcctagata

601 gaatcttcgt ggggaagaag gggctccagg aagaatggag ggctgccagg aagaaggcct

661 gagctatgag acaaaagcac tggctgctat tcttagagtt tctttcccag gggatgttac

721 aggaggggge ccaatggagg gtcaaattat catcgctttt ttatttcagg attacaccaa

781 agactgtttc caacttgact gaggtaggta gtcttggata gactgggggа aataagtcct

841 gtgggacctc ctgccttaaa gaaagcaggc ggagggccct aaaggaaatc aggcaaccag

901 accaaaagaa tgtgaccagg tggtccatgc tgtgtctctt gtgacccttc ttctccctgc

961 catgtctttt gggagagccc ttgtgttgca aaaatgagag tgtggtggta tggattgggg

1021 tttaggcaga acagtactgg ccaagcagcg ctccctggac ctcaattttc cctctgtgga

1081 atgggctagc aatcctgggc ctccccaggg cgaaggaaag accactcagg aagggcaccg

1141 tctggggcag gaaaacggag tgggttggat gtatttttt cacggatggg catgaggatg

1201 aatgcttgtc caggccgtgc agcatctgcc ttgtgggtca cttctgtgct ccagggagga

1261 ctcaccatgg gcatttgatt gcagagcagc tccgagtccg tccagagctt cctgcagtca

1321 atgatcaccg ctgtgggcat ccctgaggtc atgtctcgta agtgtgggct ggaggggaaa

Docket No. 4744.1

1381 ctgggtgccg aggctgacag agcttcccat ttcacctttt

10032445.1 - 10/24/01

Figure 4. CETP Genomic Sequence (SEQ ID No:4)

Genbank No: M32998

1 ggatgggttg ggagctcaag ttttggggca gaagggaatt ttttttggca gcagagtgca

61 agccctgccg ccaggcaaac tctgctcttc ctcatcctca gaagcacttg ctcactctgc

121 taaatcaaag tgaaacgcat gtttacagaa tattggtcca aaagggtctc agcatctccc

181 actacccagg gtgcagagcc tcgggccggc cttgctcccc aagaagggct gactggggct

241 ctgtcccctc gcccagggct cgaggtagtg tttacagccc tcatgaacag caaaggcgtg

301 agcctcttcg acatcatcaa ccctgagatt atcactcgag atgtgagtac aaagcccccc

361 tcaccagccc ctgttcctgg ggagagaggc ccagacagga ttcctggggt gactgggggc

421 tgttggggag acagacagag gggcctctac cagcttggct ccctcctggt ggcctgggag

481 tcagcccagc tcgcccctct ctcctactgc ccctcccttc agggcttcct gctgctgcag

541 atggactttg gcttccctga gcacctgctg gtggatttcc tccagagctt gagctagaag

601 tctccaagga ggtcgggatg gggcttgtag cagaaggcaa gcaccaggct cacagctgga

661 accctggtgt ctcctccagc gtggtggaag ttgggttagg agtacggaga tggagattgg

721 ctcccaactc ctccctatcc taaaggccca ctggcattaa agtgctgtat ccaagagctg

781 cggagtcctt cttctgtggc tggcgggtag agggggggggg aagggattgt ctcaccagtg

841 ccgtccacct cttttcagcc cttccaagca gctgccccca aaccctccaa gctt

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Figure 5: CETP Alleles

Intron 1 (707):

Allele 1: GTTCTTTGGT G AGAAGGTCCT (SEQ. ID. No:5)

Allele 2: GTTCTTTGGT A AGAAGGTCCT (SEQ. ID. No:6)

Intron 8 (3707):

Allele 1: TGGCCTGAAC C TGATCGCGGACC (SEQ. ID. No:7)

Allele 2: TGGCCTGAAC T TGATCGCGGACC (SEQ. ID. No:8)

Intron 8 (3946):

Allele 1: GATGATCTAG A GGGGCGGGGG (SEQ. ID. No:9)

Allele 2: GATGATCTAG T GGGGCGGGGG (SEQ. ID. No:10)

Promoter (VNTR):

GAAA and GAA repeats between -2144 and -1974 from translational start site. Alleles are defined by variation in size.

Insertion (307):

Allele 1: GAATGGAGGG AGGGCCTGGC (SEQ. ID. No:11)

Allele 2: GAATGGAGGG CTGCCAGGAAGAAGG AGGGCCTGGC (SEQ. ID. No:12)

Intron 15 (493):

Allele 1: AGCCCAGCTC G CCCCTCTCTC (SEQ. ID. No:13)

Allele 2: AGCCCAGCTC A CCCCTCTCTC (SEQ. ID. No:14)

Figure 6.

CETP Polymorphisms

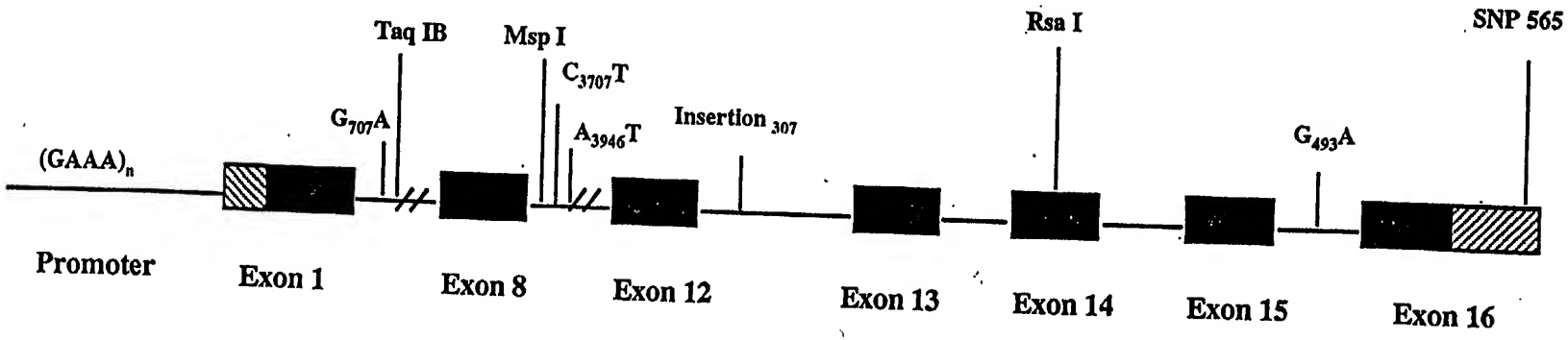

Figure 7

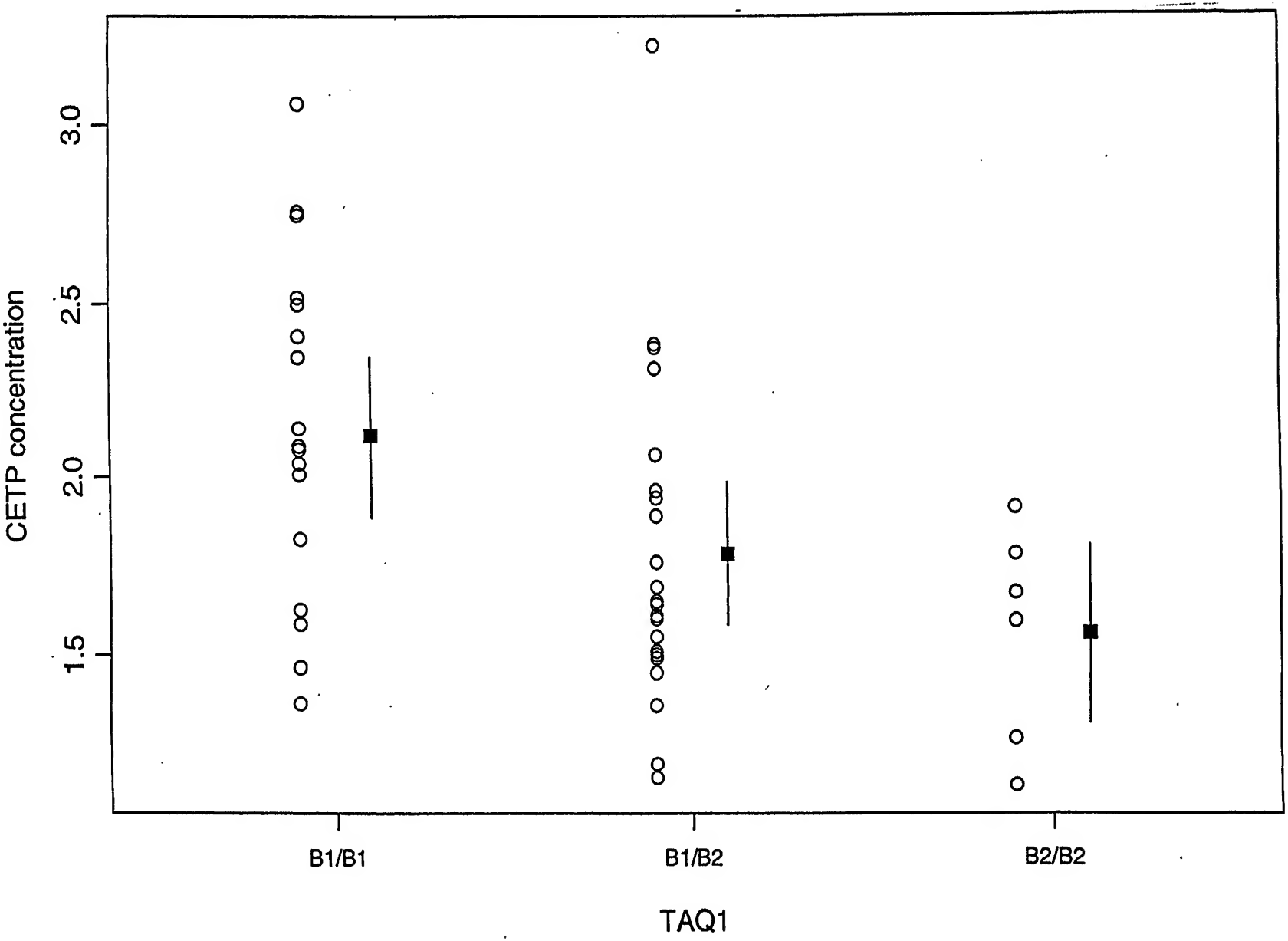

Figure 8.

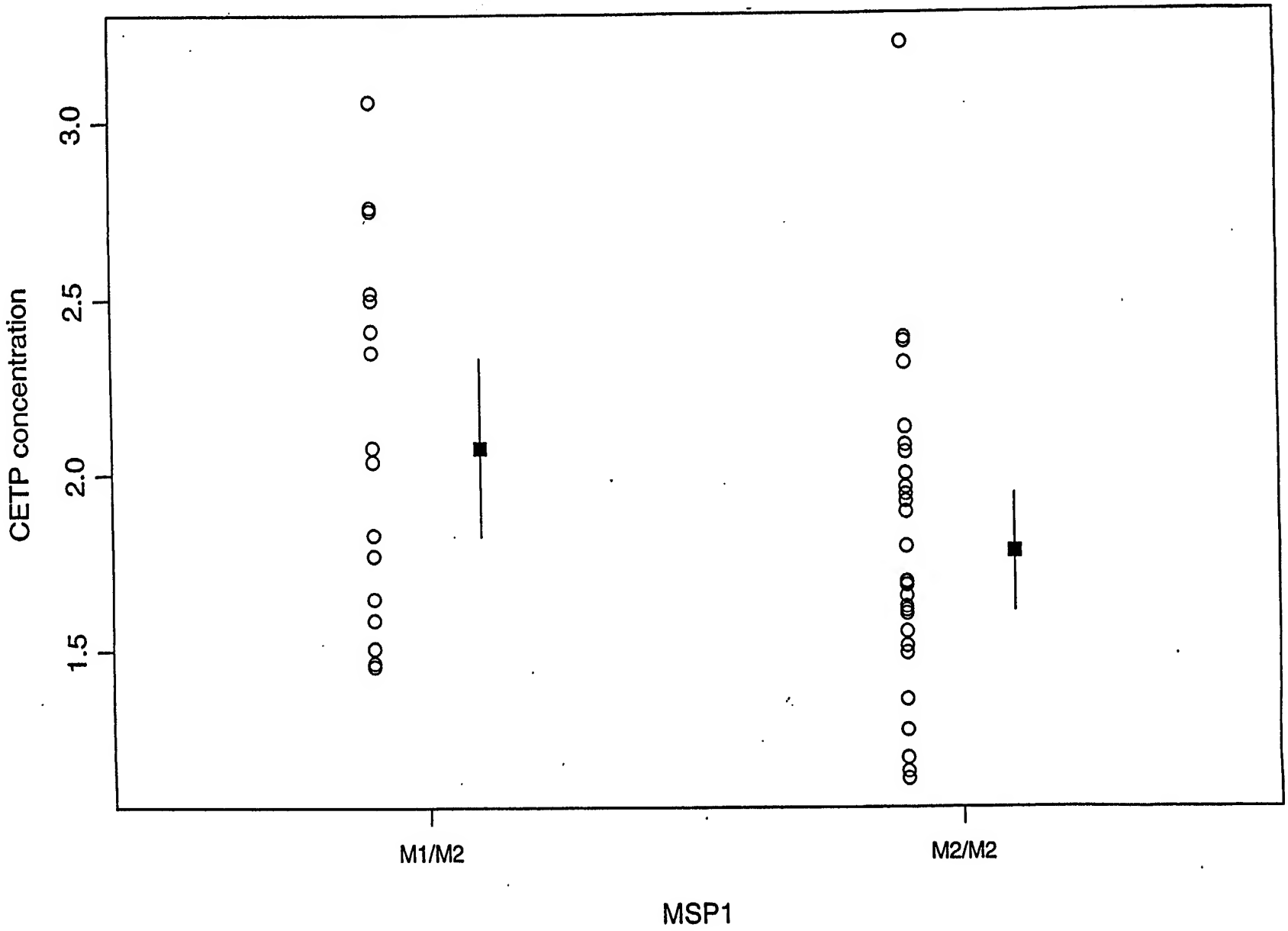

Figure 9

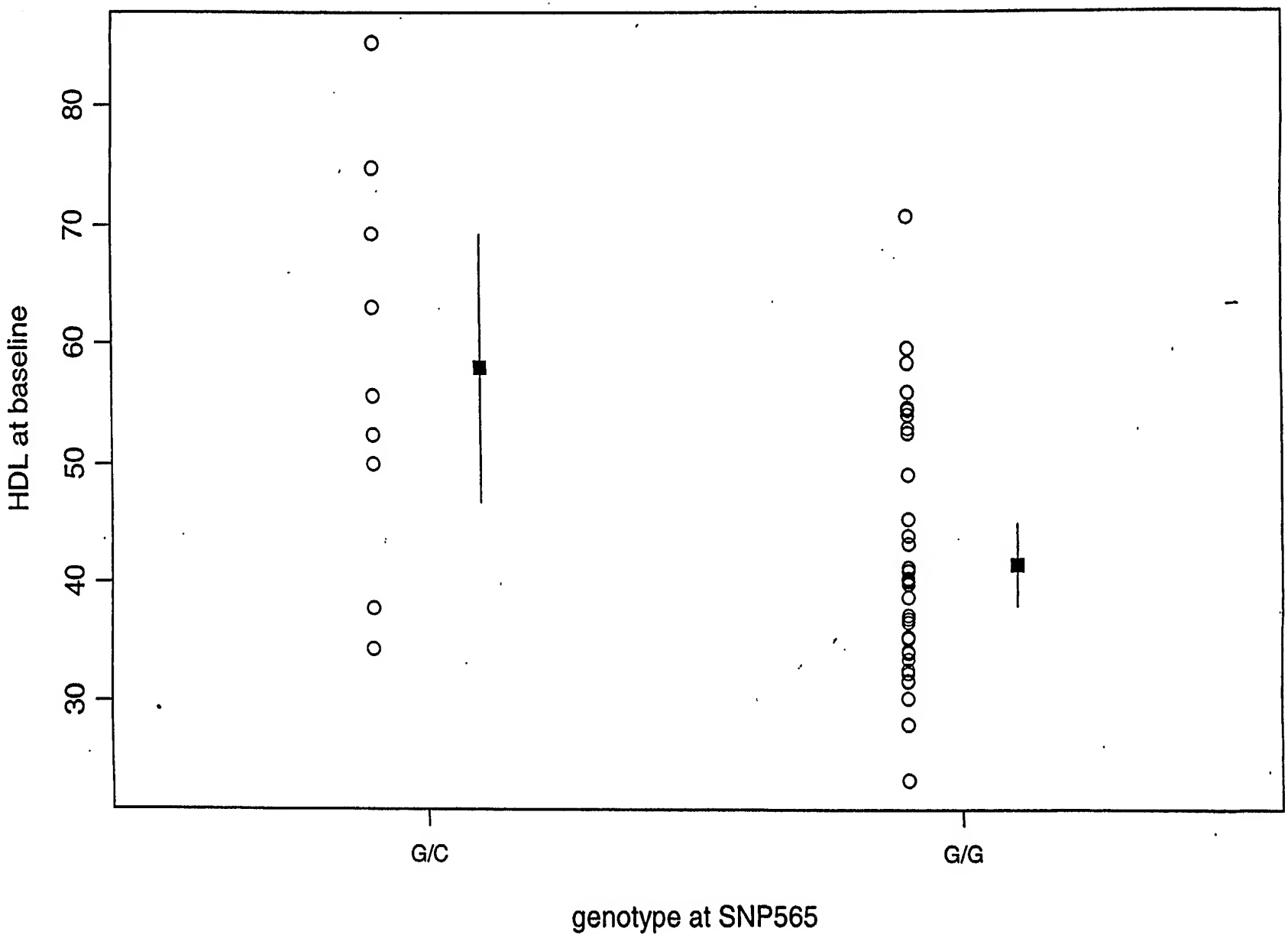

Figure 10.

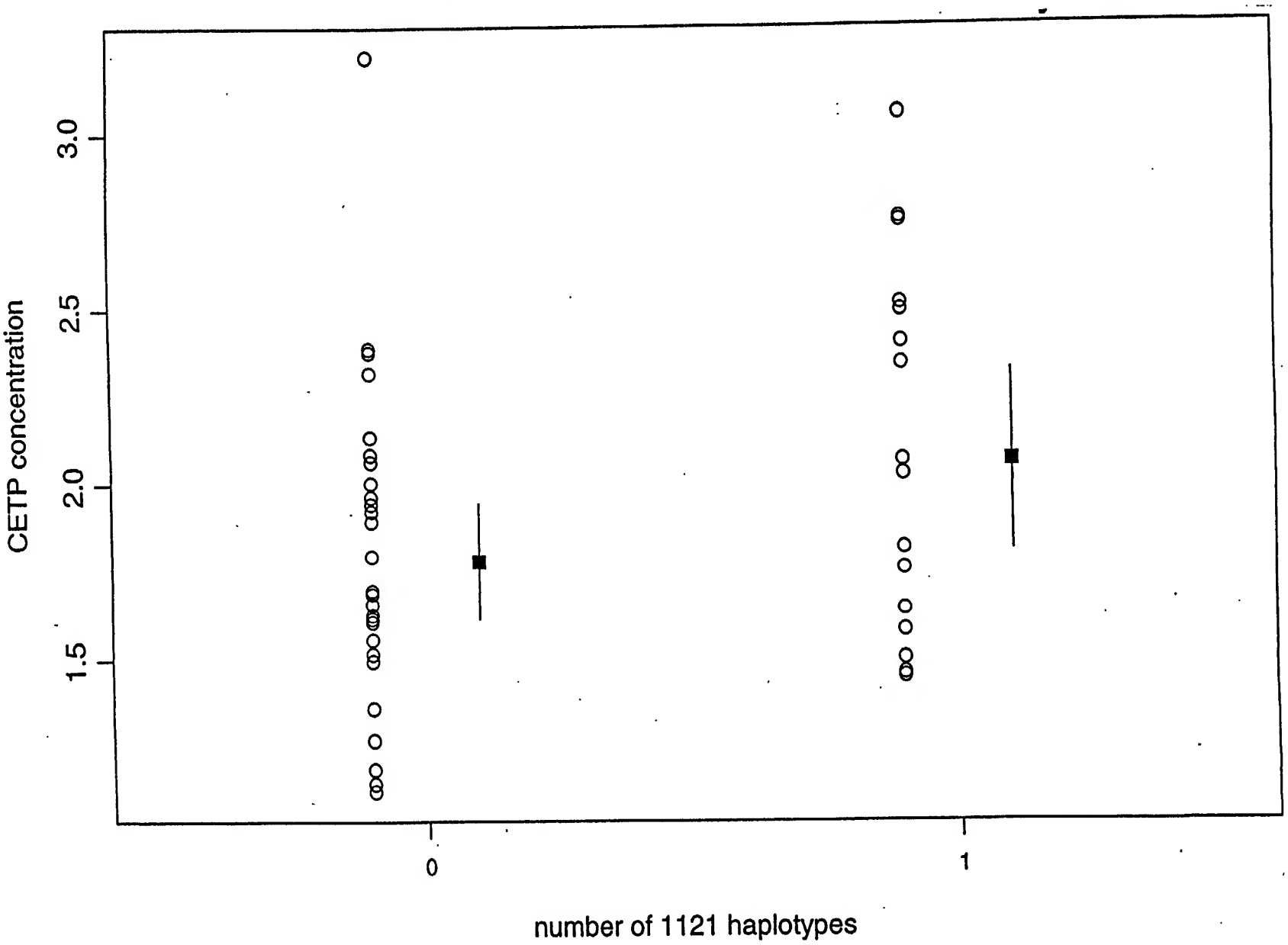
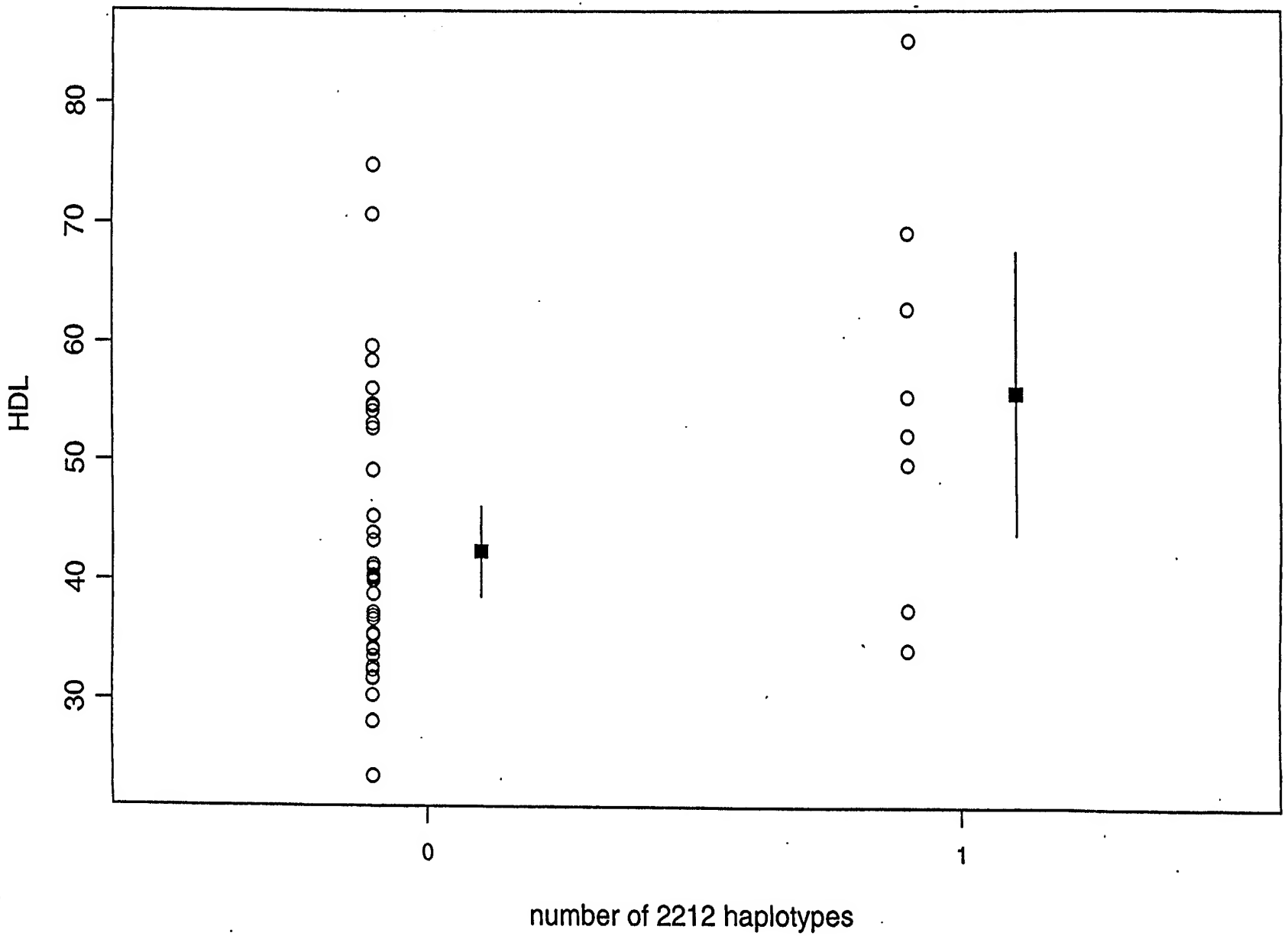
Figure 11